

# INTRAVENOUS INJECTION DEVICE

## Abstract

An intravenous injection device for detecting the position of a vein of an examinee includes a pedestal comprising a housing, a pulse ultrasound probe installed in front of the housing, and a microprocessor installed in the housing wherein the pulse ultrasound probe includes an oscillator for emitting a pulse ultrasonic signal toward the examinee along the direction of the housing and a sensor for receiving ultrasonic signals reflected by the examinee and converting the reflected signals into electric signals to output to the microprocessor, a propeller for moving the pedestal along the direction of the pulse ultrasonic signals, and a syringe connected to and conveyed by the propeller to move along the direction of the pulse ultrasonic signals.